

**CHST6 Antibody (C-term) Blocking peptide**

Synthetic peptide

Catalog # BP12350b

**Specification**

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**CHST6 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession

[O9GZX3](#)**CHST6 Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 4166

**Other Names**

Carbohydrate sulfotransferase 6, 282-, Corneal N-acetylglucosamine-6-O-sulfotransferase, C-GlcNAc6ST, hCGn6ST, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4-beta, GST4-beta, N-acetylglucosamine 6-O-sulfotransferase 5, GlcNAc6ST-5, Gn6st-5, CHST6

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CHST6 Antibody (C-term) Blocking peptide - Protein Information**Name CHST6 ([HGNC:6938](#))**Function**

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues of keratan (PubMed: [11278593](http://www.uniprot.org/citations/11278593), PubMed: [11352640](http://www.uniprot.org/citations/11352640), PubMed: [12218059](http://www.uniprot.org/citations/12218059), PubMed: [17690104](http://www.uniprot.org/citations/17690104)). Cooperates with B4GALT4 galactosyltransferase and B3GNT7 N-acetylglucosaminyltransferase to construct and elongate the sulfated disaccharide unit [->3Galbeta1->4(6-sulfoGlcNAcbeta)1->] within keratan sulfate polymer. Involved in biosynthesis of keratan sulfate in cornea, with an impact on proteoglycan fibril organization and corneal transparency (PubMed: [11278593](http://www.uniprot.org/citations/11278593), PubMed: [12218059](http://www.uniprot.org/citations/12218059), PubMed: [17690104](http://www.uniprot.org/citations/17690104)). Involved in sulfation of endothelial mucins such as GLYCAM1 (PubMed: [11352640](http://www.uniprot.org/citations/11352640)).

**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein

**Tissue Location**

Expressed in cornea. Mainly expressed in brain. Also expressed in spinal cord and trachea

**CHST6 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**CHST6 Antibody (C-term) Blocking peptide - Images****CHST6 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene is an enzyme that catalyzes the transfer of a sulfate group to the GlcNAc residues of keratan. Keratan sulfate helps maintain corneal transparency. Defects in this gene are a cause of macular corneal dystrophy (MCD).

**CHST6 Antibody (C-term) Blocking peptide - References**

Liu, Z., et al. *Cornea* 29(8):883-888(2010) Dastani, Z., et al. *Eur. J. Hum. Genet.* 18(3):342-347(2010) Dang, X., et al. *Mol. Vis.* 15, 700-705 (2009) :Birgani, S.A., et al. *Mol. Vis.* 15, 373-377 (2009) :Sultana, A., et al. *Mol. Vis.* 15, 319-325 (2009) :